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| 'Form PTO-1449 U.S. DEPARTMENT OF<br>COMMERCE PATENT AND<br>TRADEMARK OFFICE |                   |   |      |      |     |      |                                | ATTY DOCKET NO.<br>0325.00292  | SERIAL NO.<br>09/475,879 |               |             |          |  |
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| AT   | 4                 | 8   | 7 :  | 8 2  | 2   | 0 (  | 10/31/1989                     | Asghar et al.  | 365                      | 189.02        |             |          |  |
|  | 5                 | 1   | 3    | 6 1  |     | 8    | 8/4/1992                       | Ha et al.  | 307                      | 465           |             |          |  |
|  | 5                 | 2   | 8    | 0 2  | 2   | 0 :  | 1/18/1994                      | Chan et al.  | 307                      | 465           |             |          |  |
|  | 5                 | 3   | 8    | 4    | ,   | 4    | 1/24/1995                      | Konishi et al.   | 365                      | 230.03        |             |          |  |
|  | 5                 | 4   | 2    | 2 8  | 3   | 2    | 6/6/1995                       | Agrawal et al.   | 364                      | 489           |             |          |  |
|  | 5                 | 4   | 5    | 1 8  | 3   | 8    | 9/19/1995                      | El_Avat et al.   | 326                      | 39            |             |          |  |
|  | 5                 | 4   | 5    | 5 :  | 5   | 2    | 10/3/1995                      | Ho et al.  | 326                      | 41            |             |          |  |
|  | 5                 | 5   | 2    | 1 :  | 5   | 2    | 5/28/1996                      | Agrawal et al.   | 326                      | 41            |             |          |  |
|  | 5                 | 5   | 3    | 7 (  |     | 5    | 7/16/1996                      | Leong et al.   | 326                      | 41            |             |          |  |
|  | 5                 | 7   | 8    | 1 (  |     | 3    | 7/14/1998                      | Agrawal et al.   | 326                      | 39            |             |          |  |
| U  | 5                 | 7   | 9    | 9    | ı   | 7    | 8/25/1998                      | Kapusta et al.   | 395                      | 556           |             |          |  |
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|  |                   |   |      |      |     |      |                                | LUT BASED ARCHITECTURES USI<br>ew Leaver, pp. 13-16.                         | NG EMBEDDE               | D MEMO        | RY          |          |  |
| AT   |                   |   |      |      |     |      |                                | HIGH PERFORMANCE FPGA FAM<br>TING FUNCTIONS", By Om Agrawal                  |                          |               | RAIN-       |          |  |
|  |                   |   |      |      |     |      | NSITY AND VE<br>al., pp. 3-12. | RY LOW COST REPROGRAMMAB   | LE FPGA ARCI             | HITECTU       | RE", By     |          |  |
|  |                   | "XC4000E AND XC4000X SERIES FIELD PROGRAMMABLE GATE ARRAYS", XILINX, May 14, 1996 (Version 1.6), pp. 6-5 to 6-72. |      |      |     |      |                                |  |                          |               |             |          |  |
|  | "X<br>17          |   | 0002 | XLA  | \/} | (V I | TELD PROGRA                    | MMABLE GATE ARRAYS", XILIN   | K, October 18, 1         | 999, pp. 6    | -157 to (   | 5-       |  |
| A  | "V                | TRT   | ΈX   | тм 2 | 2.5 | VF   | ELD PROGRAM                    | MMABLE GATE ARRAYS", XILINX  | , April 2, 2001,         | pp. 1-20.     |             |          |  |
| Examiner   |                   | 10  | /    | 5/   | TO  | /    |                                | Date Considered  |                          |               |             |          |  |
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| K=  | 1          | 5                 | 8   | 1   | 1    | 9   | 8          | 7    | 9/22/1998    | Ashmore, Jr. et al.  | 326                      | 39                       |           |       |  |
| ,   |            | 5                 | 8   | 1   | 8    | 2   | 5          | 4    | 10/6/1998    | Agrawal et al.   | 326                      | 39                       |           |       |  |
|   |            | 5                 | 8   | 4   | 8    | 2   | 8          | 5    | 12/8/1998    | Kapusta et al.   | 395                      | 800.01                   |           |       |  |
|   |            | 5                 | 9   | 6   | 6    | 0   | 2          | 7    | 10/12/1999   | Kapusta et al.   | 326                      | 39                       |           |       |  |
|   |            | 6                 | 0   | 4   | 9    | 2   | 2          | 3    | 4/11/2000    | Lytle et al.   | 326                      | 40                       |           |       |  |
|   |            | 6                 | 0   | 5   | 8    | 4   | 5          | 2    | 5/2/2000     | Rangasayee et al.  | 711                      | 108                      |           |       |  |
|   |            | 6                 | 1   | 3   | 4    | 1   | 8          | 1    | 10/17/2000   | Landry   | 365                      | 233                      |           |       |  |
|   |            | 6                 | 1   | 3   | 7    | 3   | 0          | 8    | 10/24/2000   | Nayak  | 326                      | 39                       |           |       |  |
|   |            | 6                 | 1   | 9   | 1    | 9   | 9          | 8    | 2/20/2001    | Reddy et al.   | 365                      | 230.05                   |           |       |  |
|   |            | 6                 | 2   | 0   | 1    | 4   | 0          | 7    | 3/13/2001    | Kapusta et al.   | 326                      | 39                       |           |       |  |
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|   |            | "(                | 000 | OLF | RUI  | NN  | ER         | B X  | PLA3 CPLD",  | XILINX, April 11, 2001, pp. 1-10.  |                          |                          |           |       |  |
| Ä   | Ī          |                   |     |     |      |     | ND<br>o 4- |      | ARTAN-XL FA  | MILIES FIELD PROGRAMMABLE  | GATE ARRAY               | S", XILIN                | IX, Mar   | ch 2, |  |
|   |            | ">                | CS  | 500 | XC   | V F | AM         | IIL' | Y HIGH-PERFO | DRMANCE CPLD", XILINX, January   | / 15, 2001, pp. 1        | -18.                     |           |       |  |
|   |            | "I                | NT  | EG  | RA   | TE  | D P        | RO   | DUCT-TERM    | LOGIC IN APEX 20K DEVICES", A  | LTERA, April 1           | 999, ver. 1              | .0, pp. 1 | 1-12. |  |
|   |            | " <i>F</i>        | PE  | ΧI  | I P  | RO  | GR         | ΑN   | IMABLE LOG   | C DEVICE FAMILY", ALTERA, M  | ay 2001, ver. 1.1        | , pp. 1-96.              |           |       |  |
| 4   | )          | "F                | LE  | X 8 | 300  | 0 P | RO         | GR   | AMMABLE LO   | OGIC DEVICE FAMILY", ALTERA  | June, 1999, ver.         | 10.01, pp.               | 349-41    | 0.    |  |
| Exam  | iner       |                   |     | /   | 1    | 2   | 1          |      |              | Date Considered 10/5/8/  |                          |                          |           |       |  |
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|                     | "MAX   |                    |              |                                 | OGIC DEVICE FAMILY", ALTI                        |                    |               | 1-62.     |        |
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|                     | "FLEX<br>1-128.                              |                    | EMBI         | EDDED PROGR                     | AMMABLE LOGIC DEVICE FA                          | MILY", ALTERA      | , March 2001  | , ver. 4. | 1, pp. |
| \$                  |  |                    |              | FAMILY - FIFTH<br>2000, p. 1-47 | I GENERATION MACH ARCHI                          | TECTURE", Lattic   | e Semicondu   | ictor Coi | rp.,   |
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